	Application No.	Applicant(s)
Notice of Allowability	10/804,896	PAGANI ET AL.
	Examiner	Art Unit
	Vinit H. Patel	1764
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to 19 March 2004.		
2. The allowed claim(s) is/are <u>1-17</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🗎 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	# China to the second	-AA-A
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. ☐ Notice of Informal P6. ☐ Interview Summary	· ·
	Paper No./Mail Dat	e
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 19Mar04 	7. 🛛 Examiner's Amendn	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
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		vhp

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Sarah Smith on March 21, 2007.

The application has been amended as follows:

In claim 2, line 2, delete -- "L shaped". -- and insert -- L-shaped. --.

In claim 4, line 2, after "said one end," delete -- (33a) and insert -- (22a) --.

In claim 5, line 2, delete -- , such as ceramic balls , or metallic balls --.

In claim 6, line 2, after "are covered by a", delete -- suitable --.

In claim 10, line 1, after "claim 8", delete -- characterized in that it also comprises – and insert -- , further comprising --.

Add claim 17 as follows: --17. Reactor according to claim 5, wherein the inert balls are ceramic balls or metallic balls. --.

The following is an examiner's statement of reasons for allowance: horizontal reactors for the heterogeneous exothermic synthesis such as methanol synthesis are well known it the art. Examples are Noe, USP 4,696,799 and Zardi et al., WO 95/24961. It is also well known that particles in catalyst beds are supported by grids and screens to prevent catalyst leakage from the catalyst bed (See, for example, Noe, USP 4,696,799). However a catalyst sealing means comprising a support element a fixed to

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a reactor chamber wall below the lower gas permeable wall, a connecting element fixed at one end to the support element at an intermediate portion of a side end of the gas permeable wall, a plurality of filling elements arranged between the side end of the lower gas-permeable wall and an inner wall of the reactor wall and supported by a connecting element at a portion protruding from the intermediate element portion toward the inner wall of the reactor chamber which provides a means to prevent catalyst particle leakage from catalyst beds under different operating temperatures are not disclosed or suggested by the prior art cited.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vinit H. Patel whose telephone number is (571) 272-0856. The examiner can normally be reached on 9:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



vnp

Glenn Caldarola Supervisory Patent Examiner Technology Carter 1700